

Amendment and Response

Applicant: Hagen Klauk et al.

Serial No.: 10/599,470

Filed: November 17, 2008

Docket No.: I433.251.101/14187

Title: SENSOR HAVING ORGANIC FIELD EFFECT TRANSISTORS

REMARKS

The following remarks are made in response to the Non-Final Office Action mailed June 16, 2010. Claims 1-16 and 19 have been previously cancelled. Claims 17, 18, and 20-38 were rejected. With this Response, claims 17, 23, and 24 have been amended, and claims 18, 20, and 34-38 have been cancelled without prejudice. Claims 17 and 21-33 remain pending in the application and are presented for reconsideration and allowance.

Claim Rejections under 35 U.S.C. § 112

The Examiner rejected claim 34 under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to point out and distinctly claim the subject matter which Applicants regard as the invention.

Claim 34 has been cancelled.

Claim Rejections under 35 U.S.C. § 103

The Examiner rejected claims 17-18, 20-22, and 34-37 under 35 U.S.C. § 103(a) as being unpatentable over Speakman, U.S. Patent Application Publication No. 2002/0105080 (“Speakman”), and further in view of Chou et al., U.S. Patent Application Publication No. 2003/0218194 (“Chou”).

The Examiner rejected claim 23 under 35 U.S.C. § 103(a) as being unpatentable over Speakman, and further in view of Chou and Sakai et al., JP64-5075 (“Sakai”).

The Examiner rejected claims 24, 25, and 38 under 35 U.S.C. § 103(a) as being unpatentable over Speakman, and further in view of Chou and Yaniv et al., U.S. Patent No. 4,827,085 (“Yaniv”).

The Examiner rejected claims 26 and 27 under 35 U.S.C. § 103(a) as being unpatentable over Speakman in view of Chou and Yaniv, and further in view of Mehta et al., U.S. Patent No. 3,795,898 (“Mehta”).

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The Examiner rejected claims 28 and 29 under 35 U.S.C. § 103(a) as being unpatentable over Speakman in view of Chou, Yaniv, and Mehta, and further in view of Blanchet-Fincher, U.S. Patent Application Publication No. 2002/0149315 (“Blanchet-Fincher”).

The Examiner rejected claim 30 under 35 U.S.C. § 103(a) as being unpatentable over Speakman in view of Chou, Yaniv, Mehta, and Blanchet-Fincher, and further in view of S.T. Cui, “Intermolecular potentials and vapor-liquid phase equilibria of perfluorinated alkanes,” (“Cui”)

The Examiner rejected claim 31 under 35 U.S.C. § 103(a) as being unpatentable over Speakman in view of Chou, Yaniv, Mehta, and Blanchet-Fincher, and further in view of Reamey et al., U.S. Patent No. 5,543,944 (“Reamey”).

The Examiner rejected claims 32 and 33 under 35 U.S.C. § 103(a) as being unpatentable over Speakman in view of Chou, Yaniv, Mehta, Blanchet-Fincher, and Reamey, and further in view of Ivanov et al., U.S. Patent Application Publication No. 2004/0253375 (“Ivanov”).

Claims 18, 20, and 34-38 have been cancelled.

Applicants submit that Speakman and Chou, either alone, or in combination, fail to teach or suggest the features recited by amended independent claim 17 including “**wherein the active layer is made of a material selected from the group consisting of thiophene, polythiophene, and fluorine,**” and “**wherein the substrate comprises a polymer film having a material from a group consisting of polyimide and polyethene ether ketones.**”

Speakman discloses a method of forming an electronic device wherein the key materials for a semiconductor include pentacene and polythiophene. (Para. [0032]). Speakman discloses that a substrate is made of borosilicate glass, polyethylene, acrylate sheeting, PVC sheeting, polycarbonate sheeting, fibre-reinforced epoxy, PMMA, PCB’s, silicon, GaAs, and LiNbO₃ crystals, thin film membrane, etc., and that typical thermoplastics include nylon. (Para. [0511]).

Speakman fails to disclose an active layer comprising *thiophene, oligothiophene or fluorine* and a substrate comprising *polyimide or polyethene ether ketones*. Chou, Sakai, Yaniv, Mehta, Blanchet-Fincher, Reamey, and Ivanov also fail to teach or suggest these materials for the active layer and the substrate.

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In view of the above, Applicants submit that the above rejection of independent claim 17 under 35 U.S.C. § 103(a) should be withdrawn. Dependent claims 21-33 further define patentably distinct independent claim 17. Accordingly, Applicants believe that these dependent claims are also allowable over the cited references. Allowance of claims 17 and 21-33 is respectfully requested.

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CONCLUSION

In view of the above, Applicants respectfully submit that pending claims 17 and 21-33 are in form for allowance and are not taught or suggested by the cited references. Therefore, reconsideration and withdrawal of the rejections and allowance of claims 17 and 21-33 is respectfully requested.

No fees are required under 37 C.F.R. 1.16(h)(i). However, if such fees are required, the Patent Office is hereby authorized to charge Deposit Account No. 50-0471.

Please consider this a Petition for Extension of Time for a sufficient number of months to enter these papers, if appropriate. At any time during the pendency of this application, please charge any additional fees or credit overpayment to Deposit Account No. 50-0471.

The Examiner is invited to contact the Applicant's representative at the below-listed telephone numbers to facilitate prosecution of this application.

Any inquiry regarding this Amendment and Response should be directed to Steven E. Dicke at Telephone No. (612) 573-2002, Facsimile No. (612) 573-2005. In addition, all correspondence should continue to be directed to the following address:

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Respectfully submitted,

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